



1X2 Coarse Wavelength Division Multiplexer

AC Photonics' Coarse Wavelength Division Multiplexer (CWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path. All AC Photonics' products are Telcordia qualification tested.



Features

- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

Applications

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical Amplifier
- Access Network

Performance Specifications

| Parameter | MUX | DEMUX |
|--|--|-------|
| Operating Wavelength (nm) | Full Band: 1270 to 1610 Standard Band: 1270 ~ 1350 or 1430 ~ 1610 | |
| Center Wavelength (nm) | 1270, 1290.....1610 or 1271, 1291.....1611 | |
| Center Wavelength Accuracy (nm) | ±0.5 | |
| Channel Spacing (nm) | 20 | |
| Channel Passband (@-0.5dB bandwidth) Min.(nm) | ≥14 | |
| Pass Channel Insertion Loss (dB) | ≤ 0.6 | |
| Reflection Channel Insertion Loss (dB) | ≤ 40 | |
| Channel Ripple (dB) | ≤ 0.3 | |
| Isolation (dB) | Adjacent | N/A |
| | Non-adjacent | N/A |
| Insertion Loss Temperature Sensitivity (dB/°C) | ≤0.003 | |
| Wavelength Temperature Shifting (nm/°C) | ≤0.002 | |
| PDL (dB) | ≤0.10 | |
| Polarization Mode Dispersion (ps) | ≤0.1 | |
| Directivity (dB) | ≥50 | |
| Return Loss (dB) | ≥45 | |
| Power Handling (mW) | 300 | |
| Operating Temperature (°C) | 0 ~ +70 | |
| Storage Temperature (°C) | -40 ~ +80 | |
| Dimensions (mm) | Φ5.5 x L34(L38*) | |

* L38 for 900um Jacket.



Ordering Information

| CWDM | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
|------|--------------------------|---|--------------------------|--|------------------------------|--------------------------|--|---|
| | Channel Spacing | Number of Channel | Configuration | ITU Channel | Pigtail Style | Fiber Length | In/Out Connector | FB |
| | C=CWDM Grid | 01=1Channel | M=Mux D=Demux | 510=1510nm 511=1511nm 551=1551nm 571=1571nm | 1=BareFiber 2=900umJacket | 1=1m 2=2m | 0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC | FB=Full Band Leave Empty =Standard |

Dimensions

